



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 146809

TO: Andrew D Kosar  
Location: REM/3C04/3C18  
Art Unit: 1654  
Wednesday, March 16, 2005  
Case Serial Number: 10/777179

From: Barb O'Bryen  
Location: Biotech-Chem Library  
Remsen 1A69  
Phone: 571-272-2518

*BOB*  
barbara.obryen@uspto.gov

### Search Notes

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# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: Andrew D. Kosar Examiner#: 80341 Date: 3/4/05Art Unit: 1654 Phone Number: (571)272-0913 Serial Number: 10/777,179Mail Box and Bldg/Room Location: Mail: REM 3c18 Results Format Preferred (circle): Paper Disk E-mail  
Office: REM 3c04**If more than one search is submitted, please prioritize searches in order of need.**

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: BASIC AMINO ACID DERIVATIVESInventors (please provide full names): Hanabusa, Kenji; Suzuki, MasahiroEarliest Priority Filing Date: US 2/13/04 ; 04/28/2003 japan

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Please search the following:*

See the attached product claim.

RECEIVED  
MAR - 4 2005  
TECH/STIC  
(STIC)

\*\*\*\*\*

**STAFF USE ONLY**

Searcher: msb  
Searcher Phone: \_\_\_\_\_  
Searcher Location: \_\_\_\_\_  
Date Searcher Picked Up: 3-16-05  
Date Completed: 3-16-05  
Searcher Prep & Review Time: 20  
Clerical Prep Time: \_\_\_\_\_  
Online Time: 7

**Type of search**

NA Sequence (#) \_\_\_\_\_  
AA Sequence (#) \_\_\_\_\_  
Structure (#) 1  
Bibliographic \_\_\_\_\_  
Litigation \_\_\_\_\_  
Full Text \_\_\_\_\_  
Patent Family \_\_\_\_\_  
Other \_\_\_\_\_

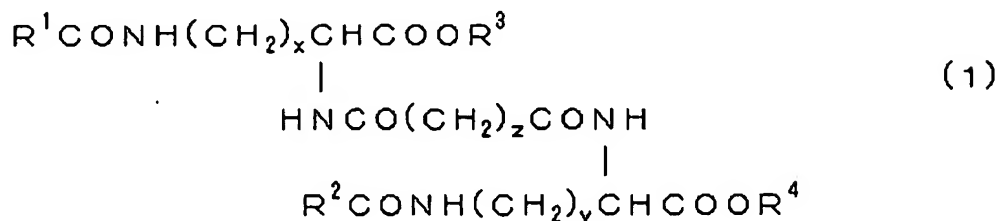
**Vendors and cost where applicable**

STN 229  
Dialog \_\_\_\_\_  
Questel/Orbit \_\_\_\_\_  
Dr. Link \_\_\_\_\_  
Lexis/Nexis \_\_\_\_\_  
Sequence System \_\_\_\_\_  
WWW/Internet \_\_\_\_\_  
Other (specify) \_\_\_\_\_

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AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A basic amino acid derivative represented by the following formula (1)- (1) or a salt thereof:



~~(In the formula,~~ wherein  $R^1$  and  $R^2$  each independently is a straight-chain or branched-chain alkyl or alkenyl group having 5 to 21 carbon atoms,

$R^3$  and  $R^4$  each independently is an alkyl or alkenyl group having 1 to 22 carbon atom(s), hydrogen atom, alkaline metal or alkaline earth metal ~~in which,~~ wherein the alkyl or alkenyl group may be either in straight-chain or branched-chain or may have a cyclic structure,

$z$  is an integer of 0 or more and

$x$  and  $y$  each is an integer of 2 to ~~4~~ 4.

~~Claim 2 (Currently Amended): The basic amino acid derivative according to claim 1, wherein  $z$  in the above formula (1) is ranges from 0 to 10.~~

~~Claim 3 (Currently Amended): The basic amino acid according to claim 1, wherein  $z$  in the above formula (1) is 0.~~

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=> fil reg; d stat que l3

FILE 'REGISTRY' ENTERED AT 12:03:29 ON 16 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4

DICTIONARY FILE UPDATES: 15 MAR 2005 HIGHEST RN 845699-17-4

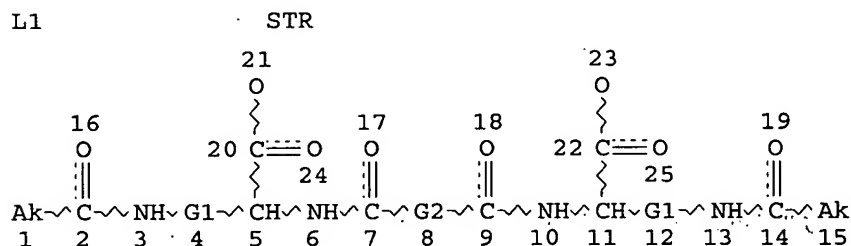
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>



REP G1=(2-4) CH2

REP G2=(0-20) CH2

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1

CONNECT IS E1 RC AT 15

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M5-X21 C AT 1

ECOUNT IS M5-X21 C AT 15

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L3 26 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 344396 ITERATIONS

SEARCH TIME: 00.00.26

26 ANSWERS

=> fil capl uspatf casrea; s l3

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE 'USPATFULL' ENTERED AT 12:03:39 ON 16 MAR 2005  
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CASREACT' ENTERED AT 12:03:39 ON 16 MAR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

L6 5 L3

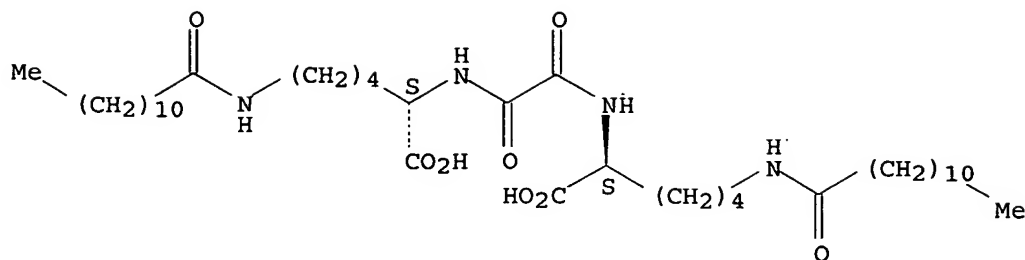
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ANSWERS '1-3' FROM FILE CAPLUS  
ANSWER '4' FROM FILE USPATFULL

=> d ibib ed abs hitstr 1-4; fil hom

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2003:627026 CAPLUS  
DOCUMENT NUMBER: 139:337687  
TITLE: New gemini organogelators linked by oxalyl amide:  
organogel formation and their thermal stabilities  
AUTHOR(S): Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko;  
Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji  
CORPORATE SOURCE: Graduate School of Science and Technology, Shinshu  
University, Ueda, Nagano, 386-8567, Japan  
SOURCE: Tetrahedron Letters (2003), 44(36), 6841-6843  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 139:337687  
ED Entered STN: 15 Aug 2003  
AB New gemini organogelators linked by an oxalyl amide that can be easily,  
effectively, and cheaply synthesized have good organogelation abilities  
and their cyclohexane gels have superior thermal stabilities; especially 7  
possessing the branched alkyl ester can gel at 0.7 wt% cyclohexane even at  
70°C.  
IT 615584-80-0P 615584-81-1P 615584-82-2P  
615584-83-3P 615584-84-4P 615584-85-5P  
615584-86-6P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked  
organogelators)  
RN 615584-80-0 CAPLUS  
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

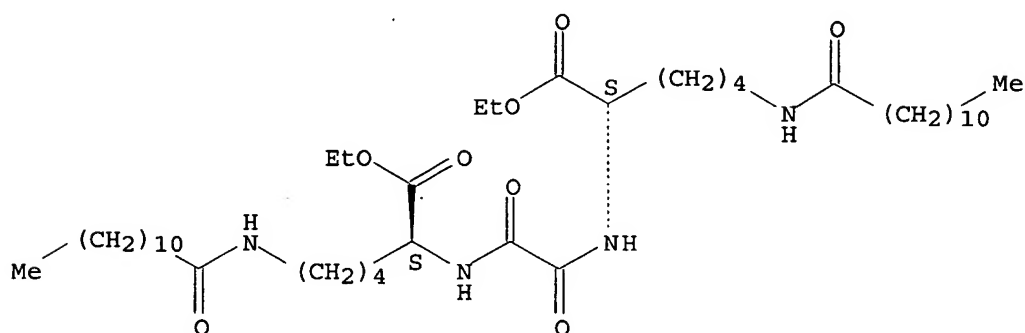




RN 615584-81-1 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

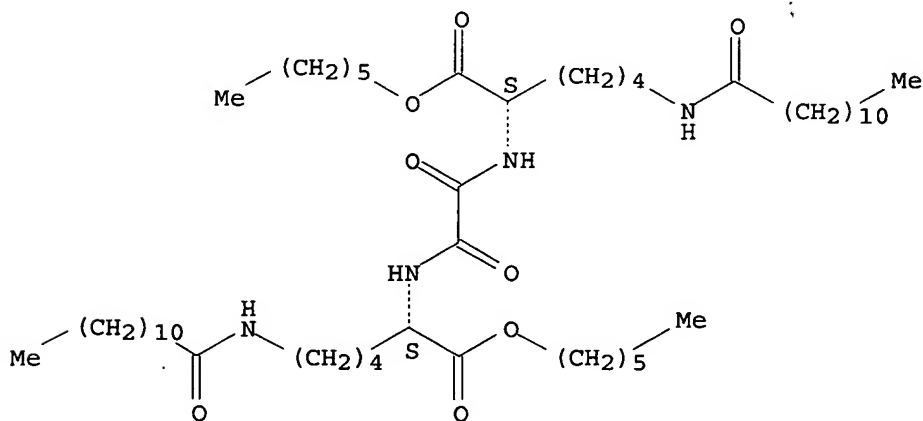
Absolute stereochemistry.



RN 615584-82-2 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, dihexyl ester (9CI) (CA INDEX NAME)

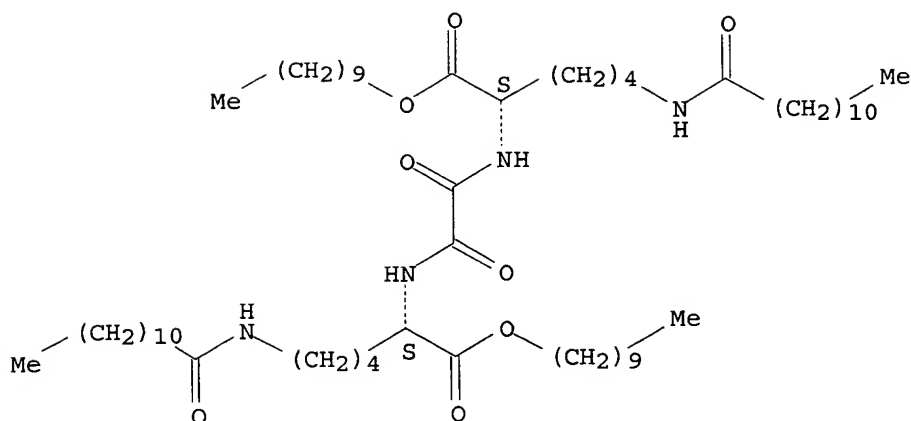
Absolute stereochemistry.



RN 615584-83-3 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didecyl ester (9CI) (CA INDEX NAME)

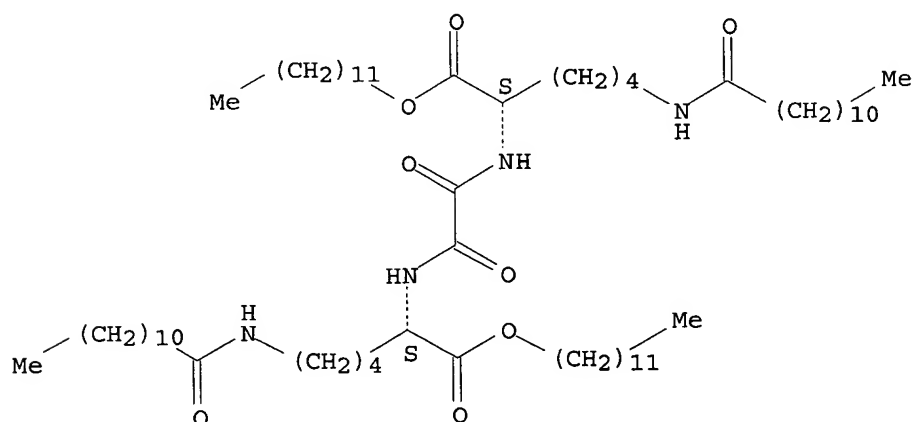
Absolute stereochemistry.



RN 615584-84-4 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didodecyl ester (9CI) (CA INDEX NAME)

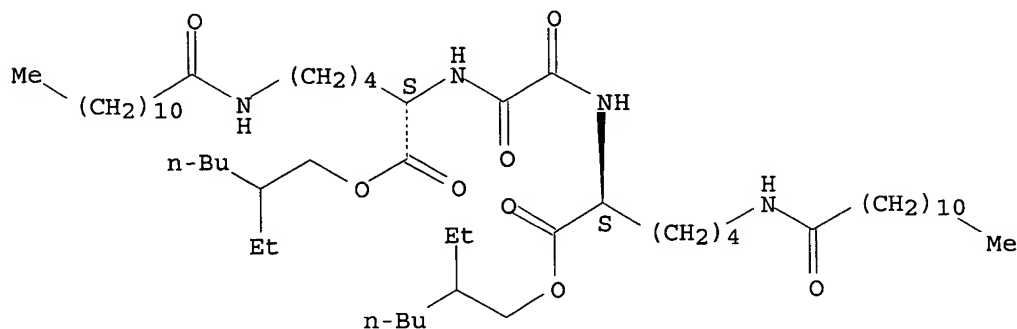
Absolute stereochemistry.



RN 615584-85-5 CAPLUS

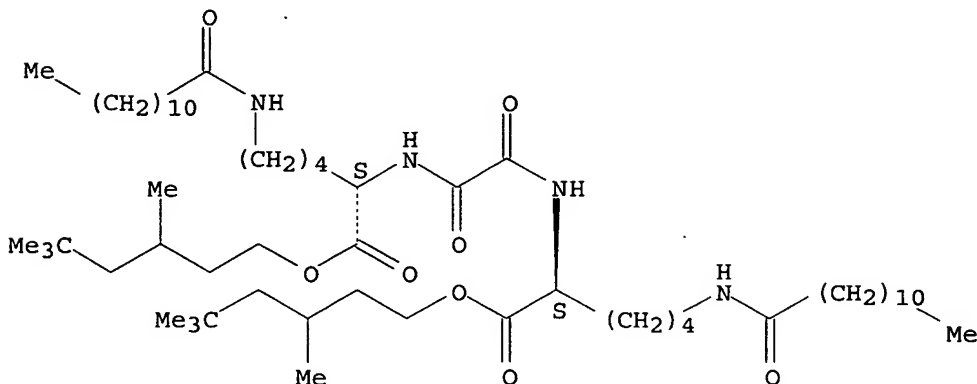
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-86-6 CAPLUS

Absolute stereochemistry.



L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:930925 CAPLUS  
DOCUMENT NUMBER: 141:400475  
TITLE: Basic amino acid derivatives as gelation agents  
INVENTOR(S): Hanabusa, Kenji; Suzuki, Masahiro  
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan  
SOURCE: Eur. Pat. Appl., 13 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

AB The basic amino acid derivative is described which is able to gel or solidify various liquid organic media or liquid aqueous media. There is provided a gelling agent or a solidifying agent being easily synthesized by a simple method and giving a gelled product an excellent stability for a long period at

ambient temperature Gel and perfumery/cosmetic compns. containing the basic amino acid derivative are also provided. Exemplary derivs. are bis(lauroyl-lysine) derivs.

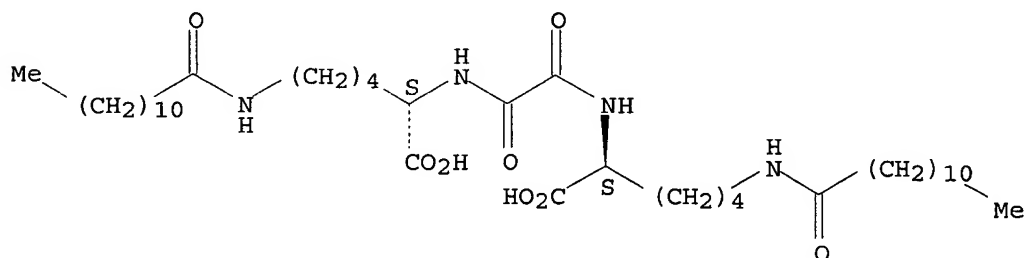
IT 615584-80-0P 615584-85-5P 615584-86-6P  
785816-56-0P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of basic amino acid derivs. as gelation agents)

RN 615584-80-0 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)  
(CA INDEX NAME)

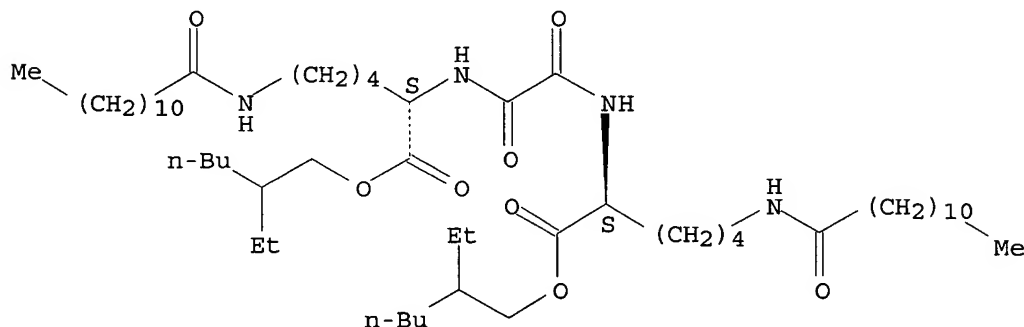
Absolute stereochemistry.



RN 615584-85-5 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

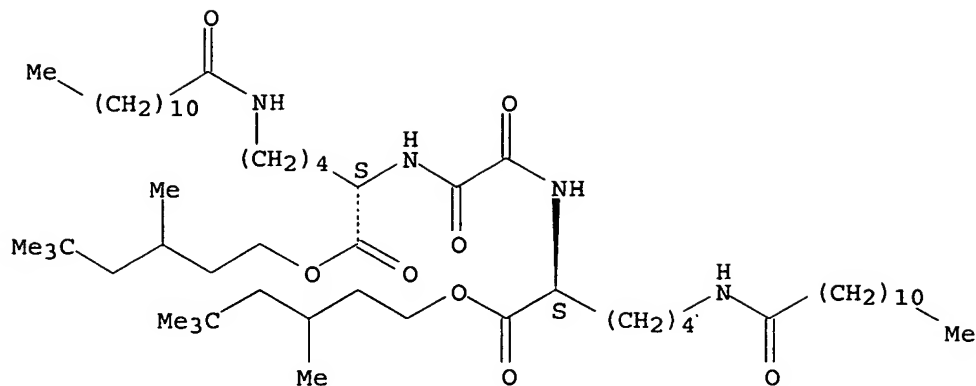
Absolute stereochemistry.



RN 615584-86-6 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

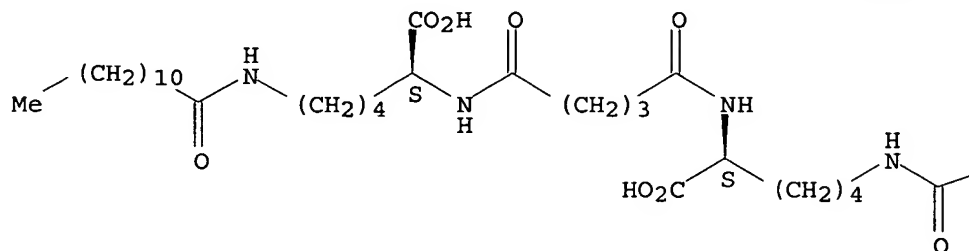


RN 785816-56-0 CAPLUS

CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)-, sodium salt (9CI) (CA INDEX NAME)

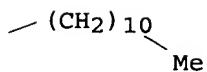
Absolute stereochemistry.

PAGE 1-A



● x Na

PAGE 1-B



IT 658051-86-6

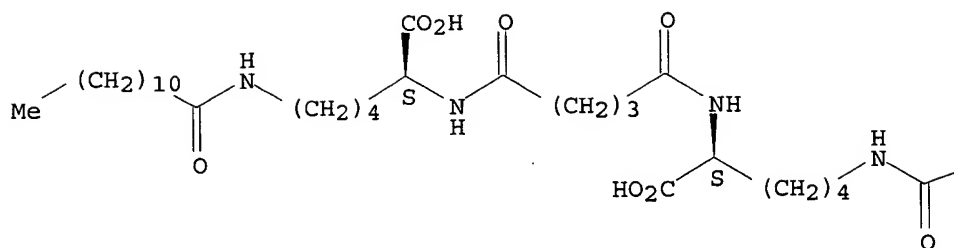
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of basic amino acid derivs. as gelation agents)

RN 658051-86-6 CAPLUS

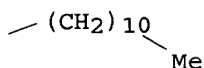
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:878000 CAPLUS

DOCUMENT NUMBER: 140:181736

TITLE: L-Lysine based gemini organogelators: their organogelation properties and thermally stable organogels

AUTHOR(S): Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji

CORPORATE SOURCE: Graduate School of Science and Technology, Shinshu University, Ueda, Nagano, 386-8567, Japan

SOURCE: Organic & Biomolecular Chemistry (2003), 1(22), 4124-4131

CODEN: OBCRAK; ISSN: 1477-0520

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 10 Nov 2003

AB Novel gemini organogelators based on L-lysine, in which two L-lysine derivs. are linked by different alkylene chain lengths through the amide bond, have been simply and effectively synthesized, and their organogelation abilities and thermal stabilities have been investigated. In a series of L-lysine Et ester derivs., the organogelation abilities decreased with increasing alkylene spacer length. In particular, bis(Nε-lauroyl-L-lysine Et ester)oxalyl amide, H23C11CONH(CH2)4CH(CO2Et)NH-COCO-NHCH(CO2Et)(CH2)4NHCOC11H23, is a good organogelator that gels most organic solvents such as alcs., cyclic ethers, aromatic solvents and acetonitrile. Various oxalyl amide derivs. with different alkyl ester groups such as hexyl, decyl, dodecyl, 2-ethyl-1-hexyl and 3,5,5-trimethylhexyl also showed good organogelation abilities. Furthermore, it was found that the cyclohexane gels formed by some oxalyl amide derivs. have a high thermal stability.

IT 615584-80-0P 615584-81-1P 615584-82-2P

615584-83-3P 615584-84-4P 615584-85-5P

615584-86-6P 658051-84-4P 658051-85-5P

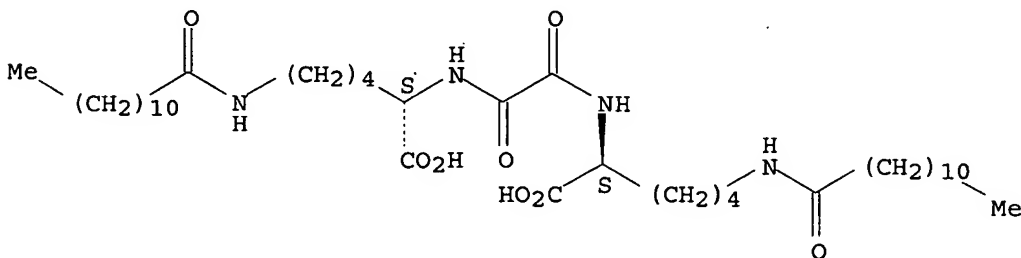
658051-86-6P 658051-87-7P 658051-88-8P  
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 658051-95-7P 658051-96-8P 658051-97-9P  
 658051-98-0P 658051-99-1P 658052-00-7P  
 658052-01-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, organogelation property and thermal stability of bis-lysine  
 amides linked by alkylene chains)

RN 615584-80-0 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI)  
 (CA INDEX NAME)

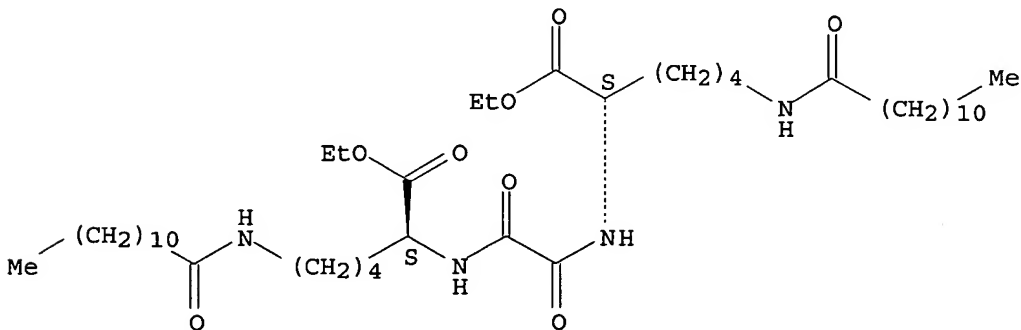
Absolute stereochemistry.



RN 615584-81-1 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl  
 ester (9CI) (CA INDEX NAME)

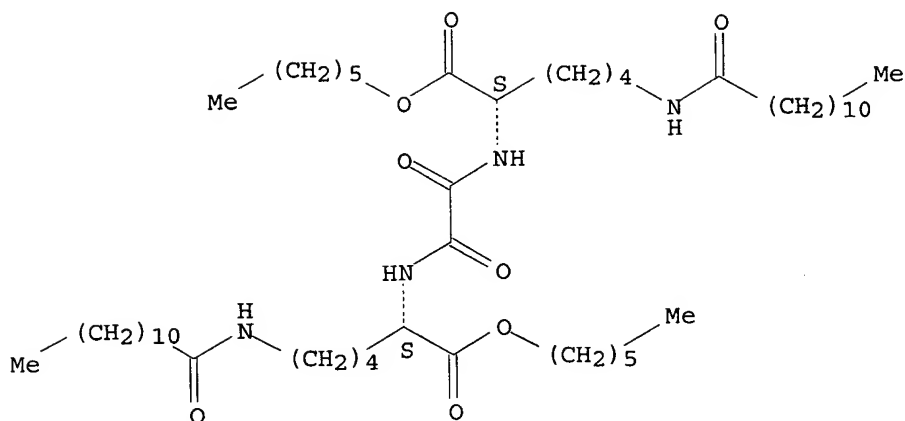
Absolute stereochemistry.



RN 615584-82-2 CAPLUS

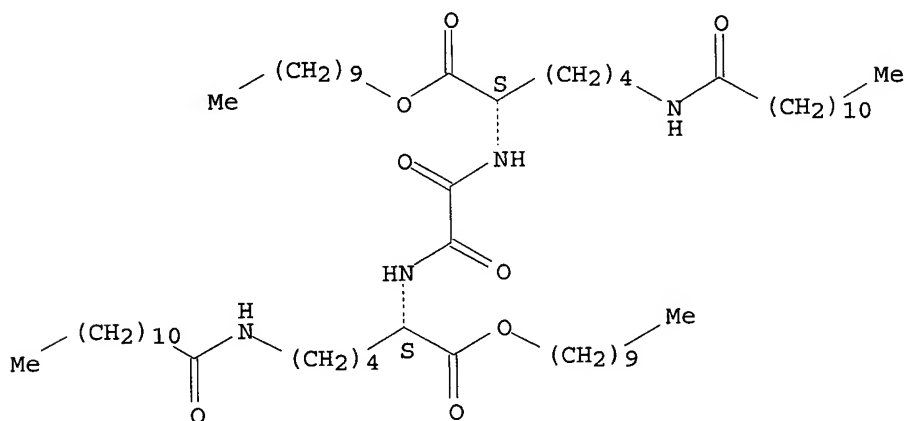
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, dihexyl  
 ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-83-3 CAPLUS  
 CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didecyl ester (9CI) (CA INDEX NAME)

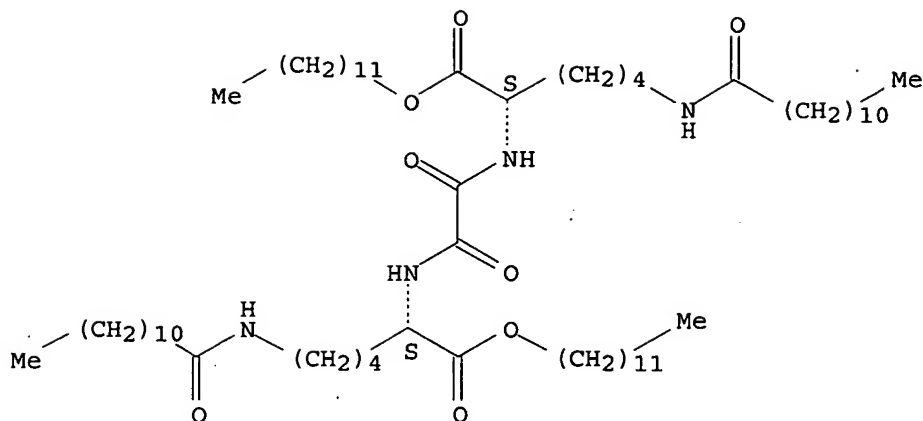
Absolute stereochemistry.



RN 615584-84-4 CAPLUS  
 CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didodecyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

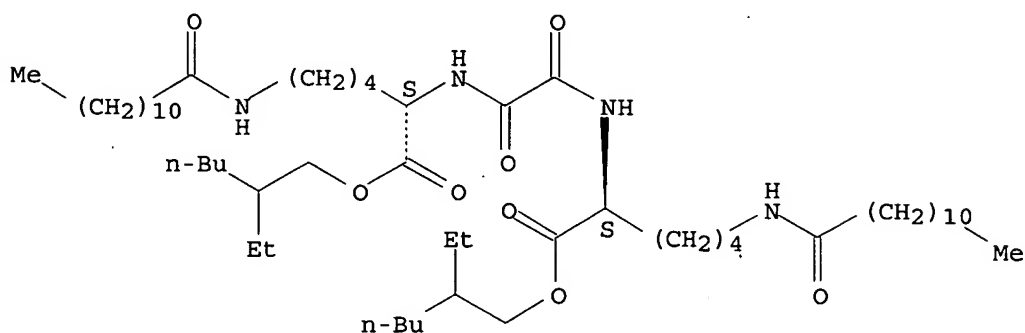




RN 615584-85-5 CAPLUS

L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-,  
 bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

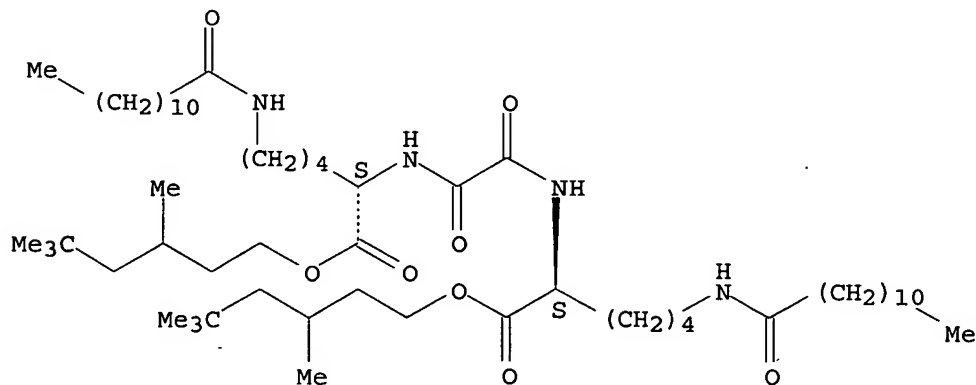
Absolute stereochemistry.



RN 615584-86-6 CAPLUS

CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



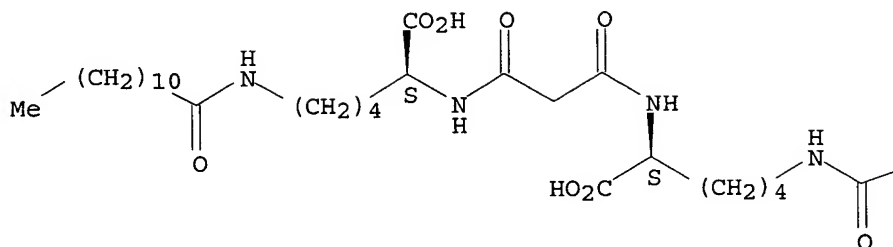
RN 658051-84-4 CAPLUS

CN L-Lysine, N2,N2'-(1,3-dioxo-1,3-propanediyl)bis[N6-(1-oxododecyl) - (9CI)

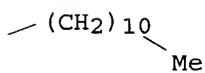
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

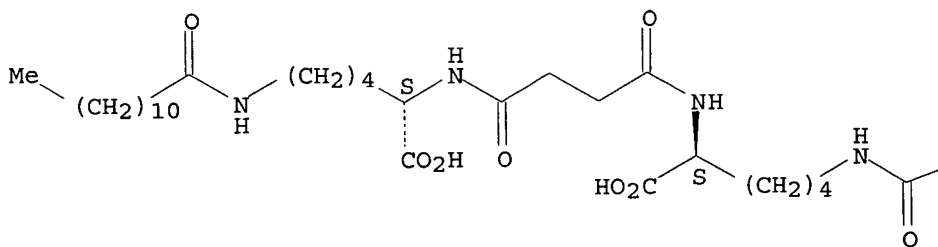


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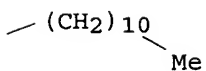
CN L-Lysine, N2,N2'-(1,4-dioxo-1,4-butanediyl)bis[N6-(1-oxododecyl)]-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

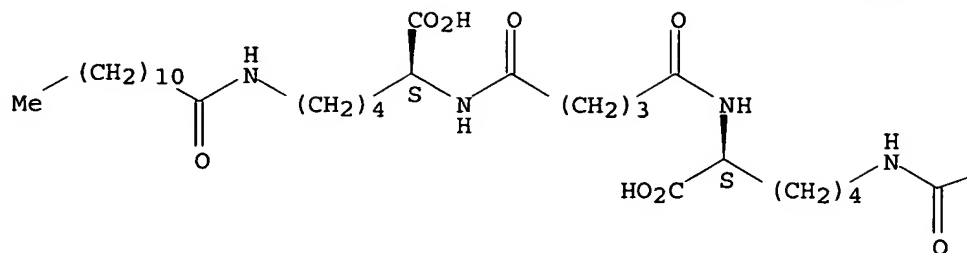


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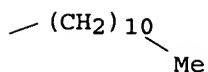
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy)bis[N6-(1-oxododecyl)]-(9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

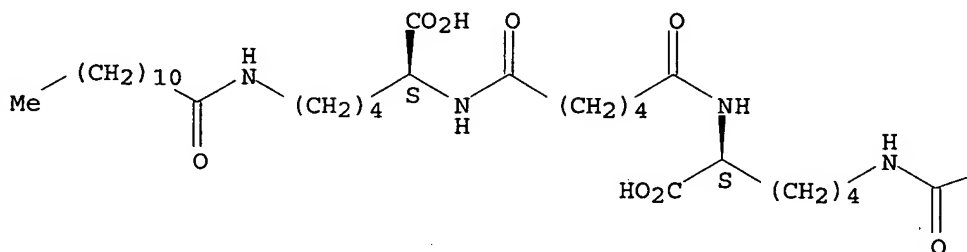


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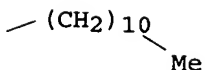
CN L-Lysine, N2,N2'-(1,6-dioxo-1,6-hexanediyl)bis[N6-(1-oxododecyl)] - (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

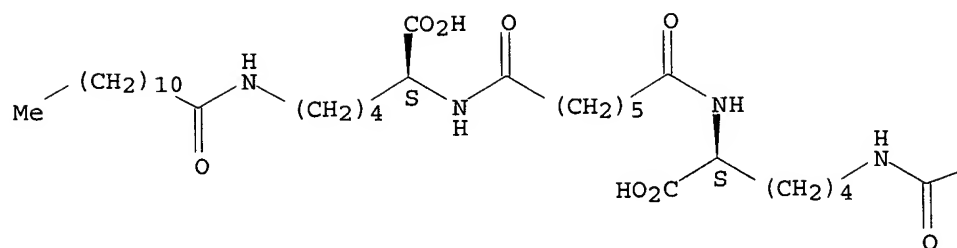


RN 658051-88-8 CAPLUS

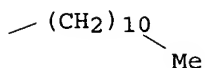
CN L-Lysine, N2,N2'-(1,7-dioxo-1,7-heptanediyl)bis[N6-(1-oxododecyl)] - (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



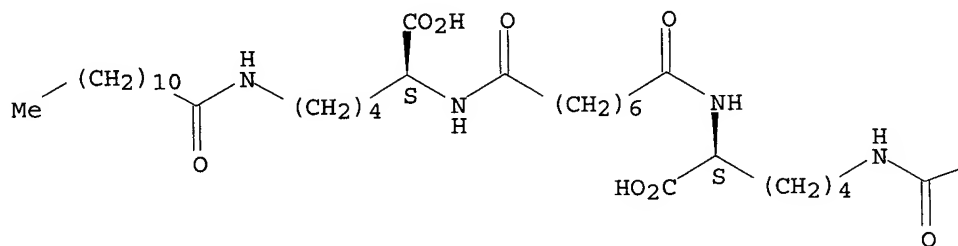
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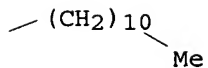
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 (CA INDEX NAME)

Absolute stereochemistry.

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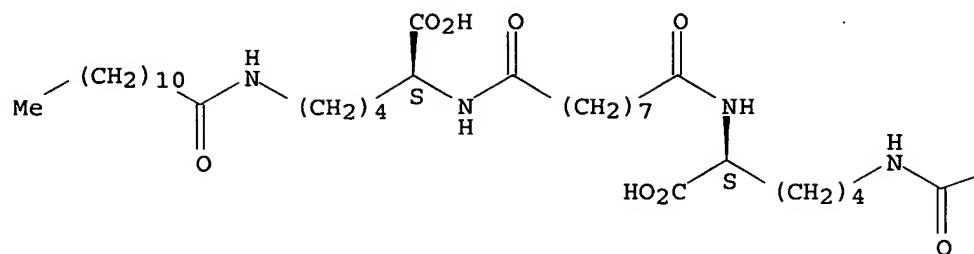
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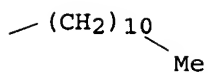
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 (CA INDEX NAME)

Absolute stereochemistry.

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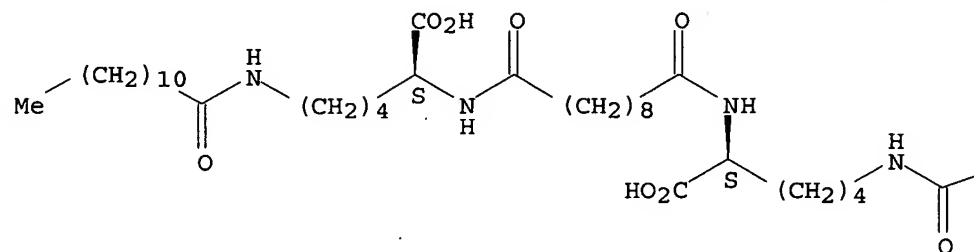


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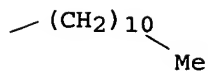
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(CA INDEX NAME)

Absolute stereochemistry.

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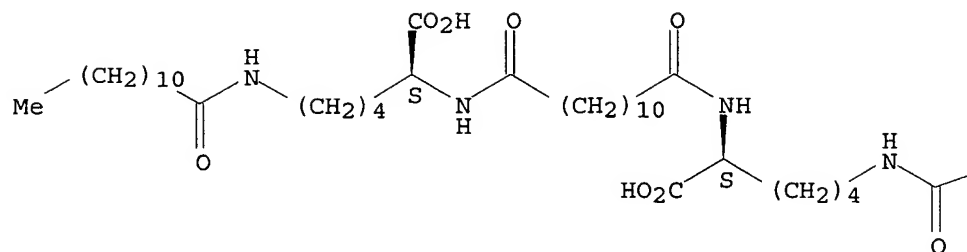


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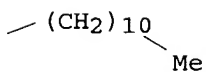
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(9CI) (CA INDEX NAME)

Absolute stereochemistry.

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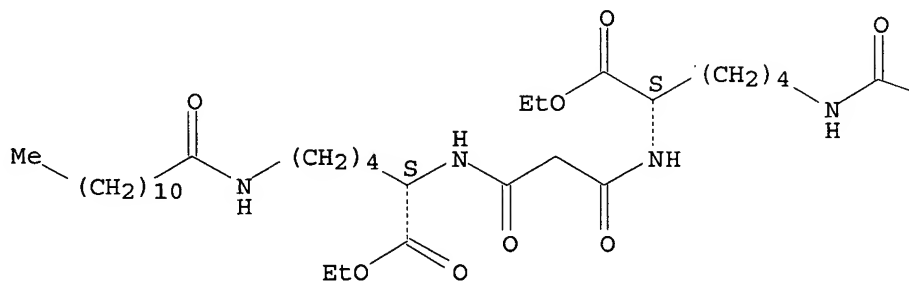


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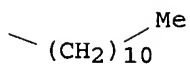
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Absolute stereochemistry.

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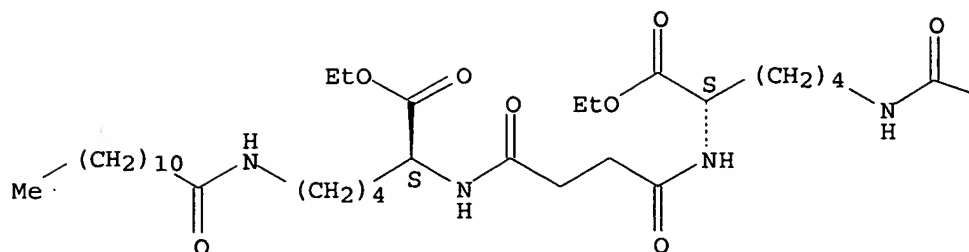


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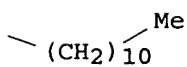
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Absolute stereochemistry.

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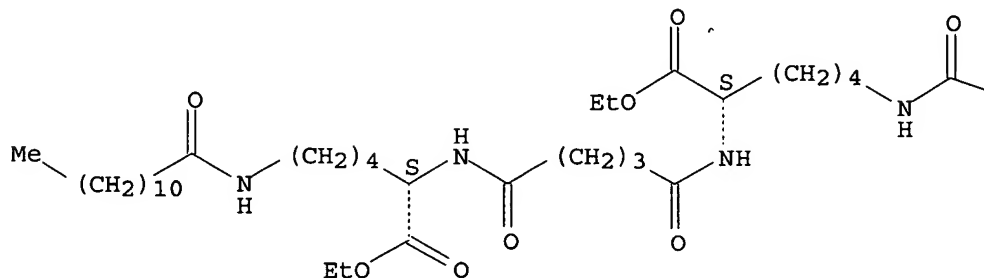


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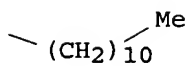
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Absolute stereochemistry.

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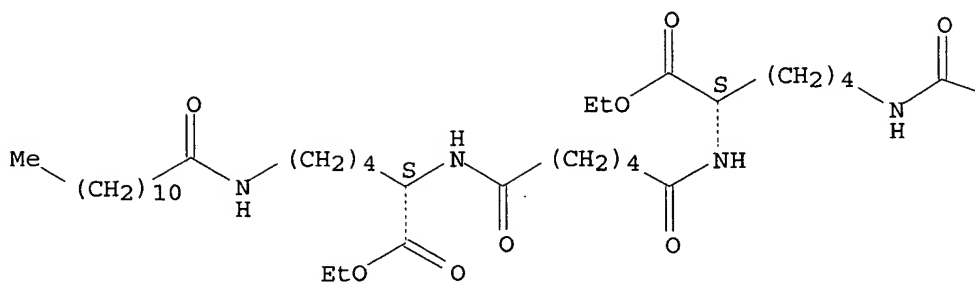


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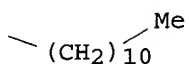
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Absolute stereochemistry.

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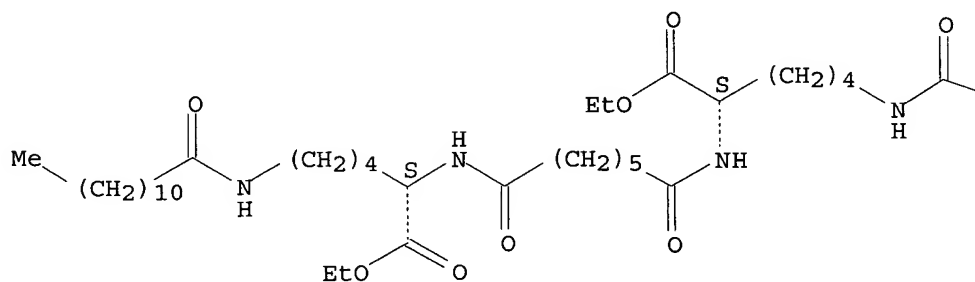


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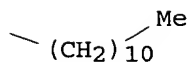
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Absolute stereochemistry.

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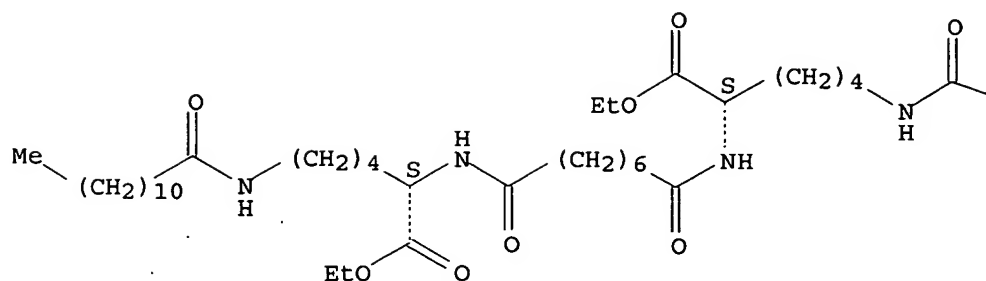
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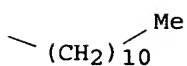
Absolute stereochemistry.



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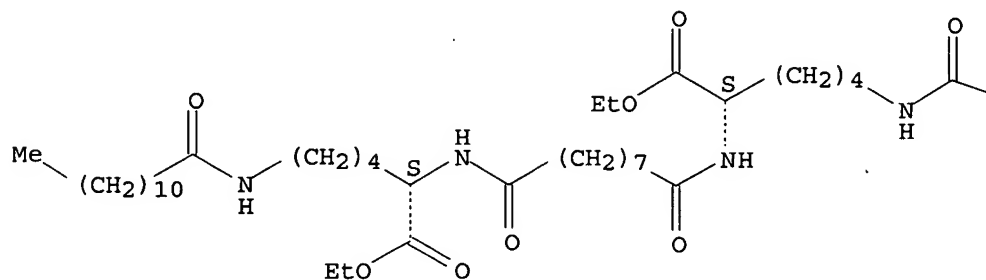
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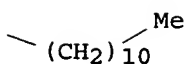
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Absolute stereochemistry.

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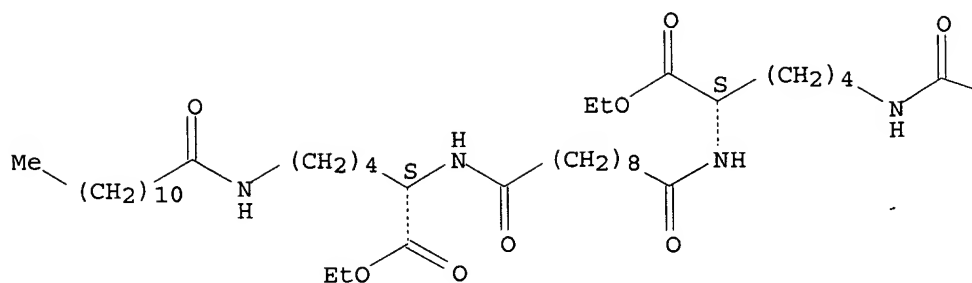
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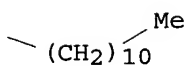
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Absolute stereochemistry.

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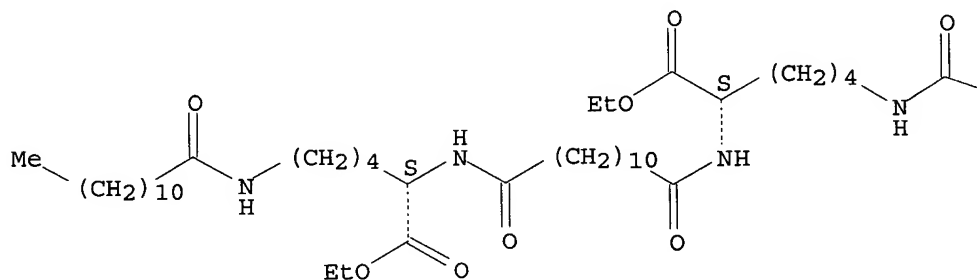
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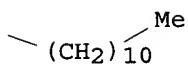
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 diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 USPATFULL on STN  
 ACCESSION NUMBER: 2004:315136 USPATFULL  
 TITLE: Basic amino acid derivatives  
 INVENTOR(S): Hanabusa, Kenji, Ueda-shi, JAPAN  
 Suzuki, Masahiro, Ueda-shi, JAPAN  
 PATENT ASSIGNEE(S): AJINOMOTO CO. INC, Tokyo, JAPAN (non-U.S. corporation)

NUMBER KIND DATE